NEOMITIS®

RTE7SD

INSTALLATION
INSTRUCTIONS

MAINS POWERED DIGITAL 7 DAY PROGRAMMABLE ROOM THERMOSTAT
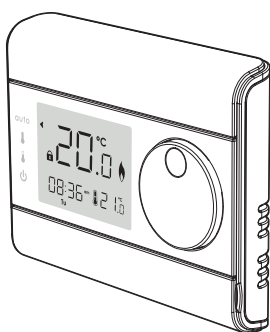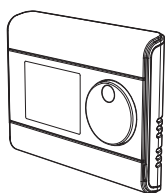
boilerplus compliant

TABLE OF CONTENTS

PACK CONTAINS

| x1	x2	x2
Thermostat	Screw Anchor	Screws

INSTALLATION

Recommended locations for your thermostat.
To ensure that your thermostat provides accurate readings and controls effectively, it must be installed approximately 1.5 m above floor level on an inside wall, away from direct sunshine and any other sources of heat or cold such as radiators, cold draughts, etc.

Important: The thermostat measures the temperature of the place where it is installed. It does not take into account the temperature differences that may exist between different locations in the house if the temperature is not uniform.
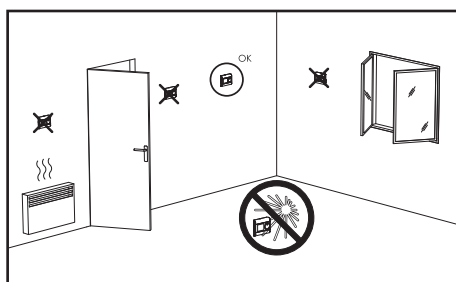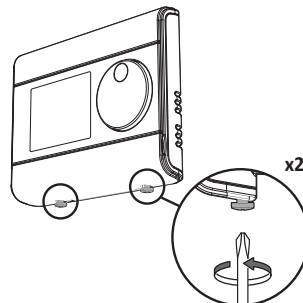

For best performance, do not mount the thermostat on metal wall boxes and leave at least 30 cm distance from any metal objects including wall boxes and boiler housing.
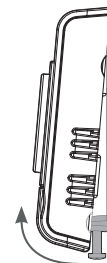
MOUNTING OF WALL MOUTING PLATE

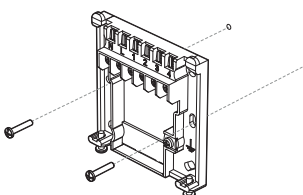The digital room thermostat is fixed on the wall with the standard wall plate which is supplied with the product.
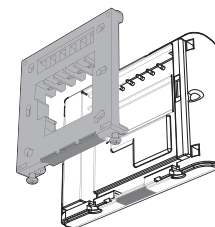
1- Unscrew the 2 screws under the thermostat.

2- Remove the wall plate from the thermostat.

3- Secure the wall plate with the two screws provided using the horizontal and vertical holes.

4- In case of surface mounting, a knock out area is provided on the wall plate and on the corresponding area of the thermostat.
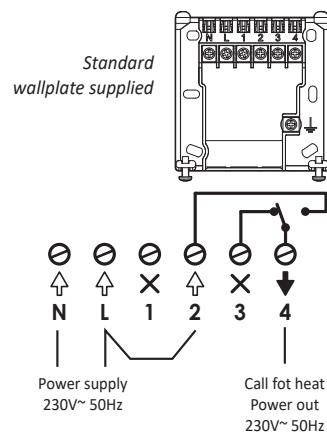
WIRING

⚠ All electrical installation work should be carried out by a suitably qualified Electrician or other competent person. If you are not sure how to install this thermostat consult either with a qualified electrician or heating Engineer. Do not remove or refit the thermostat onto the backplate without the mains supply to the system being isolated.

All wiring must be in accordance with IEE regulations. This product is for fixed wiring only.

230V Connections

Standard wallplate supplied

N   L   1   2   3   4

Power supply 230V~ 50Hz   Call fot heat Power out 230V~ 50Hz

N = Neutral
L = Live
1 = Not used
2 = Common - Power In 230V
3 = Not normally used
4 = Call for heat - Power out 230V

Voltage Free Connections

Standard wallplate supplied

N   L   1   2   3   4

230V~ Connection   In   Out
In / out : Voltage Free Connections
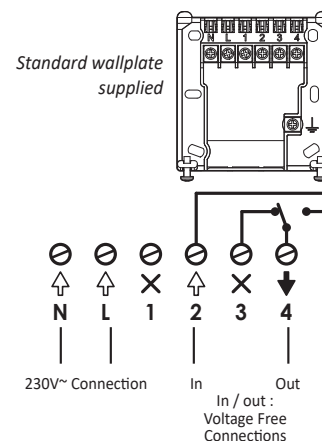
N = Neutral
L = Live
1 = Not used
2 = Common - Power In Free Connections
3 = Not normally used
4 = Call for heat - Power Out free Conections

NOTE: The unit is double in insulated so does not require and earth but a terminal is supplied for the spare wire.

MOUNTING OF THE THERMOSTAT

1- Replace the thermostat on the wall mounting plate.

2- Secure the thermostat by screwing the both locking screws under the thermostat.

x2

ⓘ PLEASE READ BEFORE PROGRAMMING THE THERMOSTAT
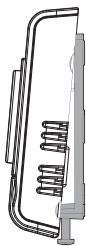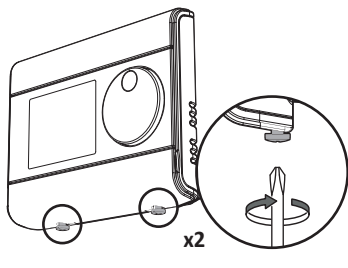
OPTIMISATION EXPLAINED
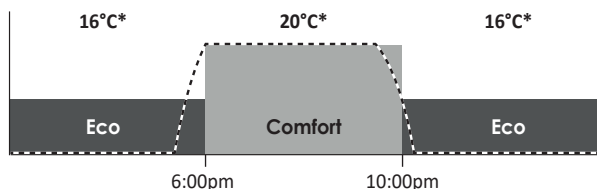
WHAT IS OPTIMISATION – OPTIMUM START?

Historically, most UK heating systems waste vast amounts of energy by firing unnecessarily early for most of the year. Homeowners tend to set their boiler on times based on when they wake up by guessing what time they feel that their boiler should fire in order to reach the requested target temperature; for example turning the boiler on at 6am in order to have a warm room/ home by their wake up time at 7am.

Dual function optimisation, priority to comfort or energy savings, the choice is yours: Depending on various parameters: room inertia, ambient temperature, desired temperature, the thermostat calculates and optimises the programming for each heating period whether set to Comfort or Savings (Eco):

In OPTI COMFORT mode, priority to comfort

In OPTI COMFORT mode, the thermostat's inbuilt algorithm optimises in order to guarantee maximum comfort during the COMFORT programme.

------ *Thermostat*

16°C*   20°C*   16°C*

Eco   Comfort   Eco

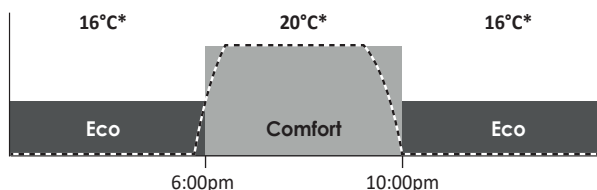6:00pm   10:00pm

*Default temperature setting

The processor within the thermostat starts the boiler operation at the optimum time to achieve the setpoint temperature at the start of the occupancy period.
In this mode, the priority is given to anticipating and maintaining the comfort temperature during periods of occupancy.

In OPTI ECO mode, priority to energy savings

In OPTI ECO mode, the thermostat's inbuilt algorithm optimises in order to guarantee maximum energy savings throughout the ECO programme.

------ *Thermostat*

16°C*   20°C*   16°C*

Eco   Comfort   Eco

6:00pm   10:00pm

*Default temperature setting

In this mode, a slight drop in the temperature level at the beginning and end of the comfort period is allowed to maximise energy savings.

ⓘ PLEASE READ BEFORE PROGRAMMING THE THERMOSTAT

Instead of using a fixed start time, Optimum Start calculates how long the house will take to warm up depending on the temperature of the home, then fires the boiler automatically at the most efficient moment in order to reach your target temperature by your programmed time.

HOW DOES OPTIMUM START WORK?

Optimum Start works on a daily basis. You set the time that you want to be warm and Optimum Start will do the rest; for example - **if you wake up at 7:30AM, then set your thermostat's start time for 7:30AM**. Optimum Start ensures that you are warm when you want to be (and not before), reducing wasted energy and saving money (up to 10% of energy costs).

To change the optimisation type, refer to the installation instructions/ advanced installer settings.
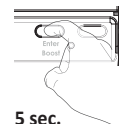
⚙ INSTALLER SETTINGS
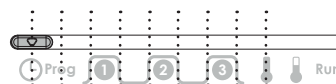
ADVANCED INSTALLER SETTING

- **Access**

Move the mode slider to ⏻ position.
Select the Programming slider position and press **Enter** for **5 seconds** to go into the dedicated installer setting.

5 sec.

Slider position		Installer mode access
1	🕐	Set 12 or 24 hours clock
2	Prog	Enable/disable automatic summer/winter change
3	∫①	Set °C/°F temperature unit
4	⊡①	Set calibration of the temperature displayed
5	∫②	Program lock
6	⊡②	Select the type of control: 2 points or TPI
9	🌡	Optimisation choice

SET 12/24 HOURS CLOCK

The pre-set value is 12 hours clock.

1- Rotate the dial to change to "24 hr".

auto
🌡
🌡
⏻

12:hr

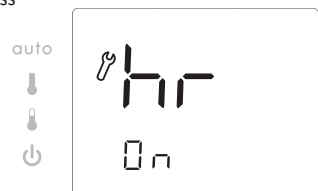**2-** Then save by pressing **Enter** or move the Programming slider.
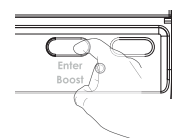
ENABLE/DISABLE AUTOMATIC SUMMER/WINTER CHANGE OVER

The summer/winter change will be performed automatically by the room thermostat.

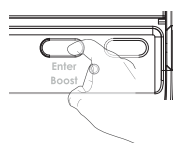**1-** Press and hold **Enter** for 5 seconds to access the setting mode.

ON appears on the display.

2- Rotate dial to the left to select "Off", to the right to select "On".

3- Then save by pressing **Enter** move the Programming mode.
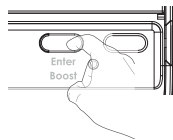
SET °C/°F TEMPERATURE

The pre-set temperature is Celsius (°C).

1- Rotate the dial to change to degree Fahrenheit.

2- Then save by pressing **Enter** or move the Programming slider.

SET CALIBRATION

Important: This operation is reserved for professional installers only; any wrong changes would result in control anomalies.

Change should only be made if the temperature measured (measured by a reliable thermometer) is different by at least 1°C compared to the setpoint temperature of the room thermostat.

The calibration adjusts the temperature measured by the ambient temperature sensor to compensate for a deviation from + 3°C to - 3°C in increments of 0.5°C.
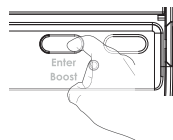
IMPORTANT: Before carrying out the calibration it is recommended to wait for 4h after a setpoint temperature modification to insure that the ambient temperature is stabilised.

The pre-set calibration value is 0.

1- Rotate the dial to adjust the calibration to the desired value.

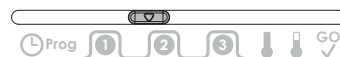**2-** Then save by pressing **Enter** or move the Programming slider.

PROGRAM LOCK

The product is unlocked by default, OFF is displayed.
When program lock function is turned on then following functions will be disabled:

- Regardless of physical location, Program Slider will always remain as per RUN mode (except to access Installer settings).
- In Mode Slider AUTO position: Manual override will not work.
- In Comfort Slider position: mode will remain as per AUTO mode.
- BOOST function is disabled.

1- Rotate the dial to ON and locked.

2- Then save by pressing **Enter** or move the Programming slider.
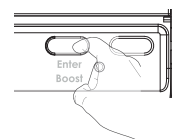
SELECT 2 POINTS/TPI

2 points = ON/OFF regulation.
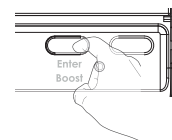**TPI** = Proportional control algorithm.

The pre-set control algorithm is TPI.

1- Rotate the dial to change to 2 points control algorithm.

2- Then save by pressing **Enter** or move the Programming slider.

Note regarding the Advanced installer settings: If MODE slider is moved or no press/rotation for 15 seconds, it will discard changes and exit installer mode.

OPTIMISATION FEATURE

- Overview

Dual function optimisation, priority to comfort or energy savings, the choice is yours: Depending on various parameters: room inertia, ambient temperature, desired temperature, the thermostat calculates and optimises the programming for each heating period whether set to Comfort or Savings (Eco):

- **In OPTI ECO mode,** the thermostat's inbuilt algorithm optimises in order to guarantee maximum energy savings throughout the ECO programme.
  In this mode, a slight drop in the temperature level at the beginning and end of the ECO period is allowed to maximise energy savings. The processor within the thermostat stops the boiler operation at the optimum time to slightly reduce the setpoint temperature before the end of the occupancy period.
  In this mode, a slight drop in the temperature level at the beginning and end of the comfort period is allowed to maximise energy savings.
- **In OPTI COMFORT mode,** the thermostat's inbuilt algorithm optimises in order to guarantee maximum comfort during the COMFORT programme. The processor within the thermostat starts the boiler operation at the optimum time to achieve the setpoint temperature at the start of the occupancy period.
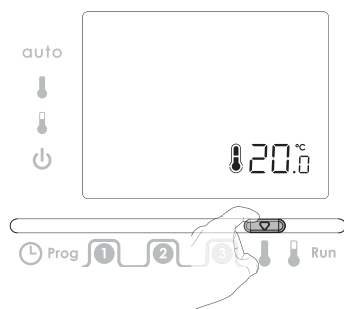 In this mode, the priority is given to anticipating and maintaining the comfort temperature during periods of occupancy.
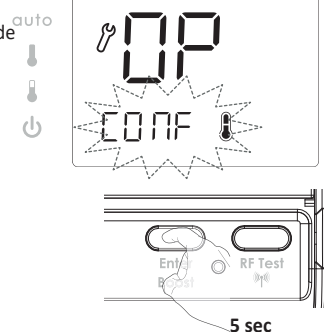
- Optimisation choice

The OPTI COMFORT mode is activated by default.

**1-** Move the programing slider to position .

2- Press and hold **Enter** for 5 seconds to access the setting mode.

OP appears on the display, the set mode "CONF" and its corresponding icon flash.

5 sec

3- Turn the dial to select the desired mode:

OP CONF = Optimisation feature activated for OPTI COMFORT mode, priority to comfort

OP ECO = Optimisation feature activated for OPTI ECO mode, priority to energy efficiency

OP OFF = Optimisation feature deactivated
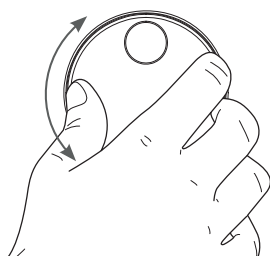
4- Press **Enter** to save, exit setting optimisation feature and go back to the current mode.

? TROUBLESHOOTING

Display disappears on thermostat.
- Check that the wiring is well done. All electrical installation work should be carried out by a suitably qualified Electrician or other competent person.

The heating does not come on or does not go off.
- Your room thermostat may have been set up close to a source of heat or on a cold wall – put it in a recommended location (see the "Installing" section on for these locations).
- Check that the communication works between the thermostat and the boiler.

You want to change the operating mode but when you move the mode slider nothing happens.
- If the lock symbol is being displayed, then the thermostat is locked.
- Unlock the thermostat by following the instructions for doing so in the "program lock" section .

The thermostat is in Auto Mode but programs are not being executed by the boiler:
- Ensure that the thermostat is in good working condition.

The thermostat does not control properly.
- Thermostat sensor may be influenced by a source of heat or cold.
- Check that the communication works between the thermostat and boiler.
- In the event of a power failure or the thermostat being disconnected, the thermostat will maintain it's programmed settings for up to 10 Hours.

If the problem persists, contact your installer.

⚒ TECHNICAL SPECIFICATIONS

- Power supply: 230V~50/60Hz.
- Relay outputs: 5(2)A
- Rated impulse voltage: 4000V.
- Micro disconnection: Type 1B.
- Pollution degree: 2.
- Automatic action: 100,000 cycles.
- Class II.

Note: It is recommended to replace annually as part of the normal system service and before leaving the property empty for a prolonged period.

Environment:
- Operation temperature: 0°C to +40°C.
- Manual temperature setting range: from +5°C to +30°C.
- Storage temperature: from -10°C to +60°C.
- Humidity: 80% at +25°C (without condensation)
- Protection rating: IP30.

UKCA declaration of conformity: We, Neomitis Ltd, hereby declare under our sole responsibility that the products described in these instructions comply with statutory instruments 2016 No.1101 (Electrical Equipment safety Regulations),), 2016 No.1091 (Electromagnetic Compatibility Regulations) , 2012 n°3032 (ROHS) and following designated standards:

UKCA

- 2016 No.1101 (Safety): EN 60730-1:2011, EN 60730-2-7:2010/AC:2011, EN 60730-2-9:2010, EN 62311:2008
- 2016 No.1091 (EMC): EN 60730-1:2011 / EN 60730-2-7:2010/AC:2011 / EN 60730-2-9:2010
- 2012 n°3032 (ROHS): EN IEC 63000:2018

Neomitis Ltd: 16 Great Queen Street, Covent Garden, London, WC2B 5AH UNITED KINGDOM - contactuk@neomitis.com

EU declaration of conformity: We, Imhotep Creation, hereby declare under our sole responsibility that the products described in these instructions comply with the provisions of Directives and harmonized standards listed below:

CE

- Article 3.1a (Safety): EN60730-1:2011/ EN60730-2-7: 2010/EN60730-2-9: 2010/ EN62311:2008
- Article 3.1b (EMC): EN60730-1:2011/ EN60730-2-7: 2010/ EN60730-2-9: 2010
- RoHS 2011/65/UE, amended by Directives 2015/863/UE & 2017/2102/UE : EN IEC 63000:2018

Imhotep Creation: ZI Montplaisir - 258 Rue du champ de courses - 38780 Pont-Evêque - France - contact@imhotepcreation.com

Neomitis Ltd and Imhotep Creation belong to Axenco Group.

Control class and energy contribution, according to ERP 2009/125/EC and related regulations

Class IV - PID Room Thermostat, for use with on/off heating devices.

Electronic room thermostat that controls both the cycle time of the thermostat and the ratio between on and off periods during the same cycle of the heating device, depending on the room temperature. PID control reduces the average water temperature, improves the accuracy of room temperature control and increases system efficiency.

The symbol 🗑, affixed on the product indicates that you must dispose of it at the end of its useful life at a special recycling point, in accordance with European Directive WEEE 2012/19/EU. If you are replacing it, you can also return it to the retailer from which you buy the replacement equipment. Thus, it is not ordinary household waste. Recycling products enables us to protect the environment and to use less natural resources.

www.neomitis.com

🌺 **NEOMITIS**®

Creating innovative solutions for ambient comfort

NEOMITIS®

OPERATING
INSTRUCTIONS

RTE7SD

MAINS POWERED DIGITAL 7 DAY PROGRAMMABLE ROOM THERMOSTAT

boiler plus
compliant

CONTROLS AND DISPLAY

• **Thermostat**

LCD display

Mode slider

Rotary dial

Reset button

Programming slider

Enter/boost button

Programming sliders sequences:
Time/date → Day to be programed → Comfort period setting → Comfort temperature → Eco temperature → Run.

Prog 1 2 3 Run

• **LCD Display**

Pairing icon (RF version)

Advanced settings

Measured room temperature

Lock function

Mode indicator

Hour

Select day
press enter

Start
End

°C°F

Service due soon   Boost   Manual

Mo Tu We Th Fr Sa Su

Programmed Comfort period

Frost protection icon

Call for heat icon

Text informations

Temperature setpoint

Days

Comfort or Eco mode icon

TABLE OF CONTENTS

SETTINGS

INITIAL POWER UP

1- Once the thermostat is connected, all symbols will be displayed on the LCD screen as shown for two seconds.

auto

Select day
press enter

Start
End

°C°F

Service due soon   Boost   Manual

Mo Tu We Th Fr Sa Su

2- After 2 seconds, the LCD will show:
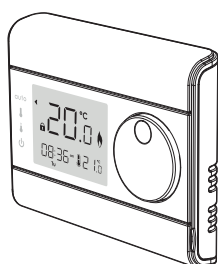 - The ambient temperature (°C) solid.

auto

20.5 °C

OVERVIEW

Thank you for purchasing our RT7SD PLUS, 7 day programmable digital room thermostat.
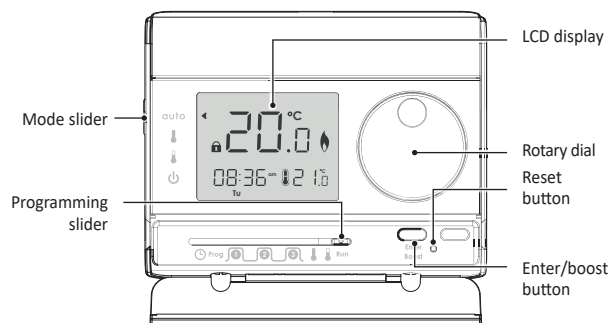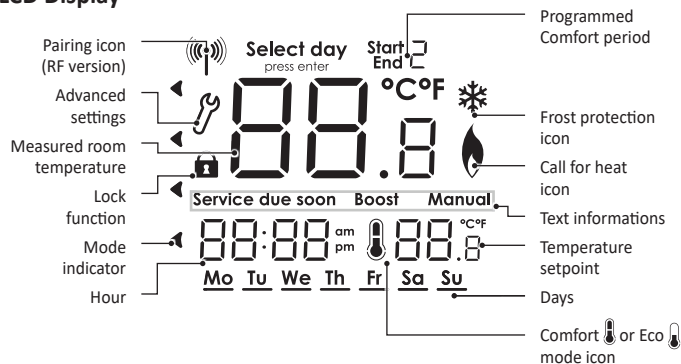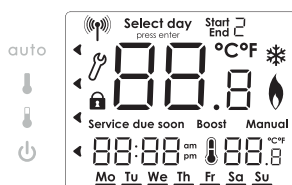It is by listening to your requirements we have created and designed our products to be easy to operate and install.
It is this ease of operation that is intended to make your life easier and help you save energy and money.

PLEASE READ BEFORE PROGRAMMING YOUR THERMOSTAT

OPTIMISATION EXPLAINED

WHAT IS OPTIMISATION – OPTIMUM START?

Historically, most UK heating systems waste vast amounts of energy by firing unnecessarily early for most of the year. Homeowners tend to set their boiler on times based on when they wake up by guessing what time they feel that their boiler should fire in order to reach the requested target temperature; for example turning the boiler on at 6am in order to have a warm room/ home by their wake up time at 7am.
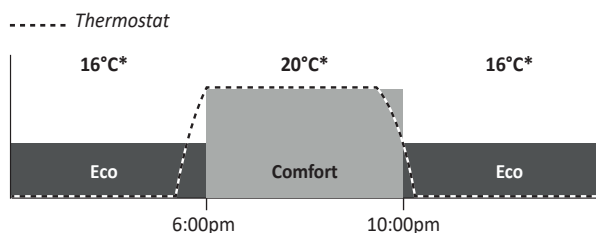
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PLEASE READ BEFORE PROGRAMMING YOUR THERMOSTAT

In OPTI COMFORT mode, priority to comfort

In OPTI COMFORT mode, the thermostat's inbuilt algorithm optimises in order to guarantee maximum comfort during the COMFORT programme.

- - - - - *Thermostat*

16°C*   **20°C***   **16°C***

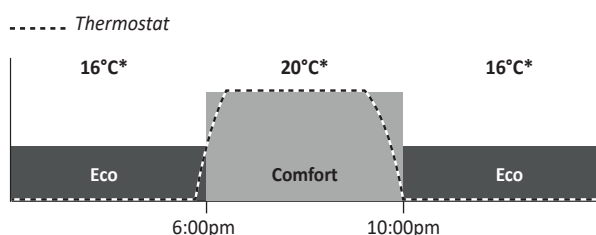| Eco	Comfort	Eco

6:00pm   10:00pm

*Default temperature setting

The processor within the thermostat starts the boiler operation at the optimum time to achieve the setpoint temperature at the start of the occupancy period.
In this mode, the priority is given to anticipating and maintaining the comfort temperature during periods of occupancy.

In OPTI ECO mode, priority to energy savings

In OPTI ECO mode, the thermostat's inbuilt algorithm optimises in order to guarantee maximum energy savings throughout the ECO programme.

- - - - - *Thermostat*

16°C*   **20°C***   **16°C***

Eco	Comfort	Eco

6:00pm   10:00pm

*Default temperature setting

In this mode, a slight drop in the temperature level at the beginning and end of the comfort period is allowed to maximise energy savings.

Instead of using a fixed start time, Optimum Start calculates how long the house will take to warm up depending on the temperature of the home, then fires the boiler automatically at the most efficient moment in order to reach your target temperature by your programmed time.

HOW DOES OPTIMUM START WORK?

Optimum Start works on a daily basis. You set the time that you want to be warm and Optimum Start will do the rest; for example - **if you wake up at 7:30AM, then set your thermostat's start time for 7:30AM**. Optimum Start ensures that you are warm when you want to be (and not before), reducing wasted energy and saving money (up to 10% of energy costs).

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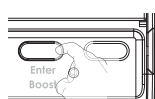
⚙ PROGRAMMING

SET DATE AND CLOCK

1- Move the Programming slider to position ⏲. The default year 2019 is flashing. Turn the dial clockwise to increment the year. Turn the dial counter-clockwise to decrement the year.
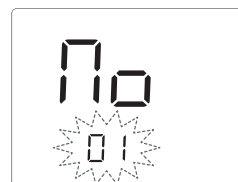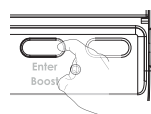
Press **Enter** to confirm and go to next setting.

2- The default month 01 is flashing. Turn the dial clockwise to increment the month. Turn the dial counter-clockwise to decrement the month.

01 = January; **02** = February; **03** = March; **04** = April; **05** = May; **06** = June; **07** = July; **08** = August; **09** = September; **10** = October; **11** = November; **12** = December.
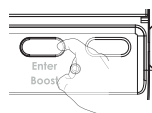
Press **Enter** to confirm and go to next setting.

3- The default day 01 and the corresponding day underlining are flashing. Turn the dial clockwise to increment the day. Turn the dial counter-clockwise to decrement the day.

Mo = Monday ; **Tu** = Tuesday ; **We** = Wednesday ; **Th** = Thursday ; **Fr** = Friday ; **Sa** = Saturday ; **Su** = Sunday
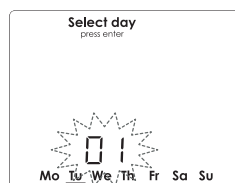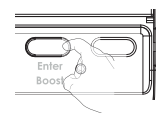
Press **Enter** to confirm and go to next setting.

4- The default time 12.00 is flashing. To set the current time, turn the dial clockwise, to increment the time, turn the dial counter-clockwise, to decrement the time.
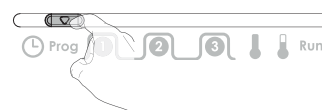
Press **Enter** or slide the programming slider to any other position to confirm/finish this setting.

Note regarding the clock: The summer/winter change will be performed automatically by the room thermostat.
To disable this feature, refer to the installation instructions/ advanced installer settings.

SET THE PROGRAM DAY

1- Move the Programming slider to position **Prog**. The current day setting is flashing. The default day is Monday.
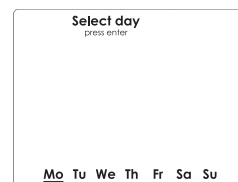
2- Option 1: Single day programming. Rotate dial to day required, eg Monday, press **Enter**. Underscore will become solid.
Move the Program slider to any other position to confirm/finish this setting.
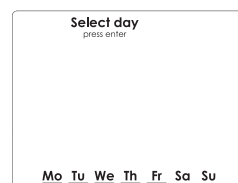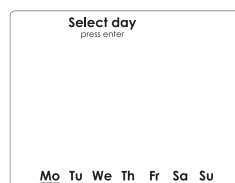
Option 2: Multiday programming. Select first day by pressing enter then turn the dial to right, to add additional days to be programmed and press **Enter** to confirm each additional day. Move the Program slider to any other position to confirm/finish this setting.

SET THE PROGRAM COMFORT PERIOD

1- To set the first Comfort start time, move the Programming slider to position ▯①.
The default time is 6:30am.

auto
⬆ start ▮
06:30 am
Mo

🕐 Prog ① ② ③ ⬆ ⬇ Run

2- Turn the dial to set the time. Move the Program slider to the next position to confirm/finish this setting.

auto
start ▮
06:45 am
Mo

🕐 Prog ① ② ③ ⬆ ⬇ Run

3- To set the first Comfort end time, move the Programming slider to position ①▯.
The default time is 8:30am.

auto
End ▮
08:30 am
Mo

🕐 Prog ① ② ③ ⬆ ⬇ Run

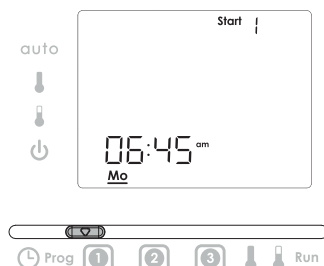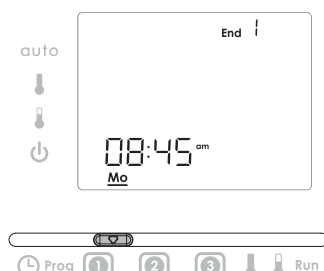**4-** Turn the dial to set the time. Move the Program slider to the next position to confirm/finish this setting.

auto
End ▮
08:45 am
Mo

🕐 Prog ① ② ③ ⬆ ⬇ Run

5- Repeat for the second comfort period ②, and for the third comfort period ③.

Comfort period	Default times	
Comfort period 2	Start at 12:00 pm	End at 02:00 pm
Comfort period 3	Start at 05:00 pm	End at 10:00 pm

Note: if you wish not to use a period then this can be done by Coinciding the End time with Start time.

Customisable default Comfort temperature

🌡️   8:30 am   2:00 pm   11:00 pm

End Comfort time   ①   ✕   ③

🌡️

Start Comfort time   6:30 am   12:00 pm   5:00 pm
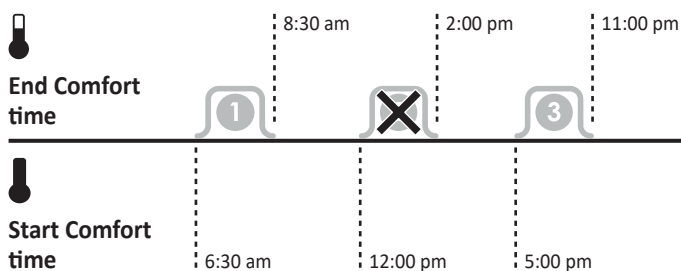
TEMPERATURES SETTING

Two temperatures can be set: Comfort temperature and Economy temperature.

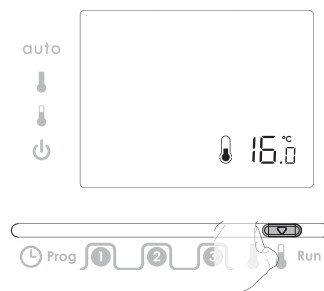**1-** To set the Comfort temperature, move the Programming slider to position 🌡️.
The default temperature is 20°C (68°F).
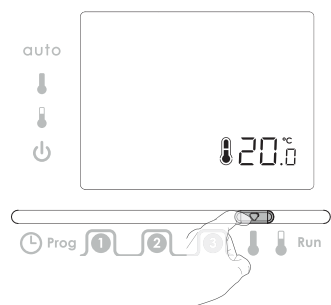
auto
🌡️20.0 ℃

🕐 Prog ① ② ③ ⬆ ⬇ Run

2- Turn the dial to set the temperature between 5°C and 30°C, in increments of 0.5°C.
Move the Program slider to the next position to confirm/finish this setting.

auto
🌡️21.5 ℃

3- To set the Economy temperature, move the Programming slider to position 🌡️.
The default temperature is 16°C (61°F).
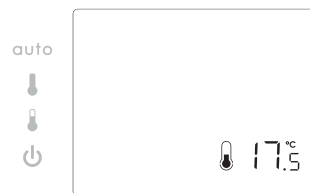
auto
🌡️16.0 ℃

🕐 Prog ① ② ③ ⬆ ⬇ Run

4- Turn the dial to set the temperature between 5°C and 30°C, in increments of 0.5°C.
Move the Program slider to the next position to confirm/finish this setting.

NOTE: This is the temperature that the unit will work to outside of your comfort periods.

auto
🌡️17.5 ℃

5- Move the program mode slider to the **Run** position to confirm and finish all previous settings.

▶ OPERATING

MODE SELECTION AND DESCRIPTION

Mode sliders sequences:
Auto mode ⟶ Comfort mode ⟶ Economy mode ⟶ Standby.

AUTO: Automatic mode. The unit is controlling to the time and temperature program that have been selected (refer to "programming" section page 2).

auto
◄ 20.5 ℃
Start 2
12:30 pm 🌡️20.0℃
Tu

COMFORT: Permanent comfort mode. The unit is controlling continuously to the comfort temperature setpoint. The default temperature setting is 20°C (68°F). Refer to section temperatures setting to change the value page 3.
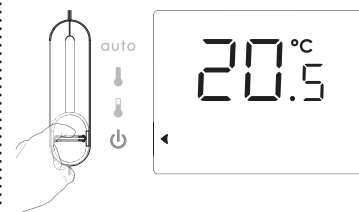
auto
◄ 20.5 ℃
12:30 pm 🌡️20.0℃
Tu

ECO: Permanent eco mode. The unit is controlling continuously to the eco temperature setpoint. The default temperature setting is 16°C (61°F). Refer to section temperatures setting to change the value page 3.

auto
20.5 ℃
◄ 12:30 pm 🌡️16.0℃
Tu

STANDBY: Permanent standby mode with frost protection. The unit is controlling continuously at the frost protection temperature factory set. i.e 8°C. The ambient temperature will be displayed.

Use it when you will be away from your home for a long time to protect your installation against frost.

auto
20.5 ℃
◄

MANUAL: A TEMPORARY CHANGE

MANUAL: Indicates when the temperature has been moved from setpoint. This temperature will operate until the next switching time. This is only active when the controller is in AUTO or COMFORT mode.

auto
◄ 20.5 ℃ 🔥
Start 2
Manual
12:30 pm 🌡️23.5℃
Tu

BOOST

BOOST: Boost mode is a temporary mode which allows you to operate at the comfort temperature for 1 hour. At the end of 1 hour the device will revert to its prior setting.

auto
◄ 17.5 ℃ 🔥
Boost
:60 🌡️20.0℃
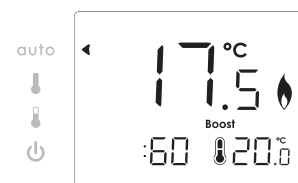
BOOST will work from any running mode.
BOOST is entered by pressing Enter/Boost button.

FACTORY SETTINGS

BOOST is cancelled by any press of button, movement of dial or slider.
When BOOST is running the time and day disappear. The minute array will count down from 60 – 0 to indicate time left in BOOST mode.

Note: the Programming slider must be in the **Run** position.

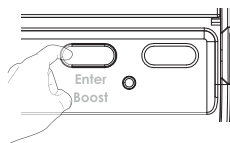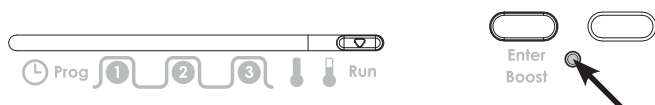| Settings	Factory settings	
Comfort temperature	20°C	
Eco temperature	16°C	
Comfort period 1	Start at 06:30 am	End at 08:30 am
Comfort period 2	Start at 12:00 pm	End at 02:00 pm
Comfort period 3	Start at 05:00 pm	End at 10:00 pm

Note: To restore factory settings, press and hold down this part for more than 3 seconds using the tip of a pen.

All LCD display will be turned ON for 2 seconds and the factory settings will be restored.

? TROUBLESHOOTING

The boiler is not heating:
- Check that the Thermostat is calling for heat if yes then the thermostat would appear to be working check that the boiler has not switched itself off.
  If no increase set temperature.
- In the event of a power failure or the thermostat being disconnected, the thermostat will maintain it's programmed settings for up to 10 Hours.

The room temperature is not high enough, the boiler is not providing enough heat:
- Check the active operating mode (see page 3) - the room thermostat may be in an Eco, Standby or Auto Mode entailing a temperature drop.
- Check the active desired temperature and increase it if needed (see page 3).

The temperature in the room is lower than the setpoint temperature:
- Check the programming. The thermostat could be in a scheduled Eco period.
- Ensure that the time displayed is the same as the current time.

You made a mistake while setting:
- You just need to restore factory settings, as explained in the "Factory settings" section (see page 4). This will reverse any changes you might have made.

The system is not heating but ♦ is on:
- If ♦ and indicator light is on but the system remains cold, then you should contact your installer.

The thermostat is programmed and you observe a delay between the active mode Comfort or Eco and your requirement:
- The optimisation function can generate slight offsets to guarantee the level of comfort at the right time or to save energy by slightly anticipating an Eco passage.

Heating comes on before programmed start time and comes off after programmed end time:
- Thermostat maybe set to OPTI Comfort mode. The thermostat will start the boiler at the optimum time to achieve the set point temperature at the start of the occupancy period. **(On cold days your heating may come on earlier than expected in order for the programmed occupied temperature to be achieved)**.
- To change the optimisation type, refer to the installation instructions.

Heating does not come on at programmed start time and comes off before programmed end time:
- Thermostat maybe set to OPTI ECO mode. The thermostat will stop the boiler at the optimum time to slightly reduce the set point temperature before the end of the occu-

pancy period. **(This helps you to save money on your heating bills)**.
- To change the optimisation type, refer to the installation instructions.

If the problem persists, then contact your installer.

If either Service due soon or Service due appear in the display then contact your installer or land lord.

🔧 TECHNICAL SPECIFICATIONS

In the event of a power failure or the thermostat being disconnected, the thermostat will maintain it's programmed settings for up to 10 Hours.

ℹ NOTE

In some instances the unit may have been set with the service interval function enabled. By Law in rented accommodation, your gas boiler should be inspected/serviced annually to ensure it is working correctly.
This option is designed to remind the end user to contact the relevant person to have the annual service carried out on the boiler.
This function will be enabled and programmed by your Installer, maintenance Engineer, or Landlord.
If it has been set to do so, the unit will display a message on the screen to remind you that a boiler service is due.
The Service Due Soon countdown will be indicated up to 50 days before the Service is due to allow time to arrange for an engineer to attend, normal functions will continue during this stage.
At the end of this service due soon period, the unit will go to Service Due OFF at which point only the 1hour boost will operate on the thermostat, it will operate at 20°C during this hour.

? WHAT IS A ROOM THERMOSTAT

... an explanation for householders
A room thermostat simply switches the heating system on and off as necessary. It works by sensing the air temperature, switching on the heating when the air temperature falls below the thermostat setting, and switching it off once this set temperature has been reached.
Turning a room thermostat to a higher setting will not make the room heat up any faster. How quickly the room heats up depends on the design of the heating system, for example, the size of boiler and radiators. Neither does the setting affect how quickly the room cools down.
Turning a room thermostat to a lower setting will result in the room being controlled at a lower temperature, and saves energy.
The heating system will not work if a time switch or programmer has switched it off. The way to set and use your room thermostat is to find the lowest temperature setting that you are comfortable with, and then leave it alone to do its job. The best way to do this is to set the room thermostat to a low temperature – say 18ºC – and then turn it up by one degree each day until you are comfortable with the temperature. You won't have to adjust the thermostat further. Any adjustment above this setting will waste energy and cost you more money.
If your heating system is a boiler with radiators, there will usually be only one room thermostat to control the whole house. But you can have different temperatures in individual rooms by installing thermostatic radiator valves (TRVs) on individual radiators. If you don't have TRVs, you should choose a temperature that is reasonable for the whole house. If you do have TRVs, you can choose a slightly higher setting to make sure that even the coldest room is comfortable, then prevent any overheating in other rooms by adjusting the TRVs.
Room thermostats need a free flow of air to sense the temperature, so they must not be covered by curtains or blocked by furniture. Nearby electric fires, televisions, wall or table lamps may prevent the thermostat from working properly.

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